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HUNGARIAN ACADEMY OF SCIENCES ANNOUNCES TV DESIGNING CONTEST

The Department of Technical Sciences of the Hungarian Academy of Sciences has announced that it will award prizes for the best solutions of problems related to the introduction of television in Hungary.

Papers on the following subjects may be submitted:

1. Basic principles of designing and calculating TV heterodyne filters and the basis for preparing vestigil side band filters, taking into account the frequency and input.

The method of designing and constructing both types of filters must be included. Target date; 1 May 1955.

2. Plans for the method of designing and calculating TV transmitting and receiving antennas, with special emphasis on uniformity of radiation and on the permanent values, preferably expressed in ohms, of the input impedance of the antenna, as required by the frequency band employed. Target date: 1 January 1954.

3. Plans for the design, development, and production of an improved Hungarian iconoscope, supericonoscope, and superorthicon having a life of at least 300 hours. Target date: 1 May 1955.

4. Design and manufacture of kinescopes and projection cathode ray tubes in two or three sizes. Target date: 31 December 1954.

5. Design and manufacture of an air-cooled transmitting triode operating at a frequency of 60-80 or 160-220 megacycles. The plate power dissipation of the tube should be 5 to 15 watts. The triode should preferably have a thorium cathode and a life of 500 to 1,000 hours. Target date: 1 June 1954.

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6. A phosphor for black and white pictures, having a persistence of 1.50-1.80 seconds, must be prepared for the screen of the cathode ray tube. Target date: 1 July 1954.

7. A 16-millimeter film with a magnetic sound track is to be prepared for use in on-the-spot broadcasts. The sensitivity and granular structure of the negative should conform to that of the standard 16-millimeter negative.

8. A study and advisory report on the insulating and sound absorbing properties of domestically manufactured soundproofing materials, on the basis of actual tests. Target date: 31 December 1953.

9. Plans for the most suitable acoustical design of the TV studio, taking into consideration the dimensions of the room. Target date: 28 February 1954.

Any person may participate in the contest, regardless of his place of employment or occupation.

If significant results are achieved, the participating contestant will receive a royalty of 5,000 forints every year for each point on which his plan was accepted. Persons submitting acceptable papers on all nine points may receive a special award amounting to a maximum of 20,000 forints. Any contestant desiring advice, or access to a laboratory or library in working out his project, may apply to the Department of Technical Sciences of the Hungarian Academy of Sciences

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